

WHAT IS CLAIMED IS

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1. A method of changing a fragment size of data packets in a router where a data packet is divided into the data packets having the fragment size, and are transmitted to a network along with audio packets, comprising the steps of:

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acquiring, in the router, a parameter indicative of whether proper audio quality is maintained through transmission of the audio packets; and

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changing the fragment size of the data packets in response to the acquired parameter.

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2. The method as claimed in claim 1, wherein said step of acquiring includes a step of measuring, as said parameter, a wait time for which the audio packets wait in the router before being transmitted to the network.

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3. The method as claimed in claim 1, wherein said step of acquiring includes a step of measuring, as said parameter, a delay time of the network by transmitting a hello packet to and receiving the hello packet from the network.

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4. The method as claimed in claim 1,  
wherein said step of acquiring includes a step of  
counting, as said parameter, a number that indicates  
how many times a congestion notice is received from  
5 the network during a predetermined time period to  
indicate congestion of the network.

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5. The method as claimed in claim 1,  
wherein said step of acquiring includes a step of  
acquiring, as said parameter, a number of audio  
calls from an apparatus that counts the number of  
15 audio calls.

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6. The method as claimed in claim 1,  
wherein said step of acquiring includes a step of  
acquiring, as said parameter, a number of audio  
calls based on signaling information.

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7. A router apparatus for routing and  
transmitting audio packets along with data packets  
30 to a network, comprising:

a control unit which acquires a parameter  
indicative of whether proper audio quality is  
maintained through transmission of the audio  
packets; and

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a fragmentation unit which divides a data  
packet into the data packets having a fragment size,  
and changes the fragment size in response to the

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acquired parameter.

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8. The router apparatus as claimed in claim 7, wherein said control unit measures, as said parameter, a wait time for which the audio packets wait in the router before being transmitted to the network.

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9. The router apparatus as claimed in claim 7, wherein said control unit measures, as said parameter, a delay time of the network by transmitting a hello packet to and receiving the hello packet from the network.

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10. The router apparatus as claimed in claim 7, wherein said control unit counts, as said parameter, a number that indicates how many times a congestion notice is received from the network during a predetermined time period to indicate congestion of the network.

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11. The router apparatus as claimed in claim 7, wherein said control unit acquires, as said parameter, a number of audio calls from an apparatus that counts the number of audio calls.

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12. The router apparatus as claimed in claim 7, wherein said control unit acquires, as said parameter, a number of audio calls based on signaling information.

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